

ABSTRACT

A work conveying system and a traveling path sealing structure in the work conveying system are disclosed which can effectively prevent the leakage of dust into a clean room which dust is generated from a drive portion and a slide portion in a traveling path of the work conveying system using guide rails.

In a work conveying system including at least a work ^{holder} [holding means] for holding a work and a horizontal ^{mover} [moving means] for moving the work ^{holder} [holding means] horizontally in an upper ceiling space within a clean room, the work being conveyed to each of plural processing

apparatuses, [while circulating among the processing]

[apparatuses,] ^{mover} the horizontal moving means has at least one linear moving mechanism, ^{including} the linear moving mechanism

[comprising a traveling path covered with] a duct ^{with in} [and having]

^{internal} [a guide] ^{ing} portion in the interior thereof, a traveling body ^{ing} 66

[adapted to] engage the guide ^{designed by the duct} portion and travel ⁱⁿ through an interior space of the traveling path, and a slider

connected to the traveling body ^{50r} [and adapted to] travel

[together] with the traveling body ^{on} [in] the exterior of the traveling path, the work holding ^{er} means or another linear 98

[moving mechanism being] ^{is} attached to the slider, ^{Air cleaners} [and cleaning] 110

[means] are disposed at suitable intervals in the traveling

path to clean the air ^{therein} [present within the traveling path] and 125

to
✓ discharge the cleaned air to the exterior. [In the interior]
[of] the traveling path [are] accommodated a drive source, a
drive mechanism, and a power supply, means, which are for
[the traveling body, at least the drive source being
integral with the traveling body.

A deformable sealing means may be provided in an elongated
gap portion in which a connecting member for connecting the
slider to the traveling body extends through the duct, the
sealing means covering the elongated gap portion without
obstructing the travel of the connecting member.